ChatGPT 4o

Copy code

```
        self.model.to(self.device)

    def save_checkpoint(self, epoch, loss):
        """Saves model checkpoint using save_pretrained."""
        try:
            checkpoint_path = os.path.join(self.checkpoint_dir, f'checkpoint_epoch
            os.makedirs(checkpoint_path, exist_ok=True)
            self.model.save_pretrained(checkpoint_path)
            self.tokenizer.save_pretrained(checkpoint_path)
            logging.info(f"Checkpoint saved at {checkpoint_path}")
        except Exception as e:
            logging.error(f"Error saving checkpoint: {e}")

    def load_checkpoint(self, checkpoint_path):
        """Loads model checkpoint using from_pretrained."""
        try:
            self.model = GPT2LMHeadModel.from_pretrained(checkpoint_path)
            self.tokenizer = AutoTokenizer.from_pretrained(checkpoint_path)
            self.model.to(self.device)
            logging.info(f"Checkpoint loaded from {checkpoint_path}")
            return True
        except Exception as e:
            logging.error(f"Error loading checkpoint from {checkpoint_path}: {e}")
            return False

    def train(self, dataloader, epochs=3, save_every=1, callback=None):
        """Trains the model."""
        self.model.train()
        for epoch in range(1, epochs + 1):
            epoch_loss = 0
            for batch_idx, (input_ids, attention_mask) in enumerate(dataloader):
                input_ids = input_ids   (self.device)
                attention_mask = attention_mask.to(self.device)
```

Message ChatGPT

ChatGPT can make mistakes. Check important info.